

California High-Speed Train Project

CALIFORNIA HIGH-SPEED RAIL AUTHORITY



Anaheim to Los Angeles Section Alternatives Analysis Phase

Welcome to the California High-Speed Train Community Meeting

Please Sign In!



System Map & Quick Facts

CALIFORNIA HIGH-SPEED RAIL AUTHORITY



Anaheim to Los Angeles Section Alternatives Analysis Phase

- Approved by voters in 2008
- Largest public transportation project in U.S. history
- First high-speed train project in the U.S.
- Anaheim to San Francisco in less than three hours
- Project will be operational during this decade
- Provide congestion relief for freeways and airports
- 100% clean, electric power



Travel Times

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	<i>San Francisco (Transbay)</i>	<i>San Jose</i>	<i>Sacramento</i>	<i>Fresno</i>	<i>Los Angeles Union Station</i>	<i>Anaheim</i>	<i>Riverside</i>	<i>San Diego</i>
San Francisco (Transbay)		:30	1:53	1:20	2:38	2:57	3:10	3:56
San Jose	:30		1:24	:51	2:09	2:28	2:41	3:27
Sacramento	1:53	1:24		:59	2:17	2:36	2:49	3:35
Fresno	1:20	:51	:59		1:24	1:43	1:56	2:42
Los Angeles Union Station	2:38	2:09	2:17	1:24		:20	:33	1:18
Anaheim	2:57	2:28	2:36	1:43	:20			
Riverside	3:10	2:41	2:49	1:56	:33			:48
San Diego	3:56	3:27	3:35	2:42	1:18		:48	



Everyone Benefits

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Improving the Environment:

- Uses 1/3 the energy of air travel
- Uses 1/5 the energy of auto travel
- Helps reduce CO2 emissions by approximately 12 billion pound a year by 2030



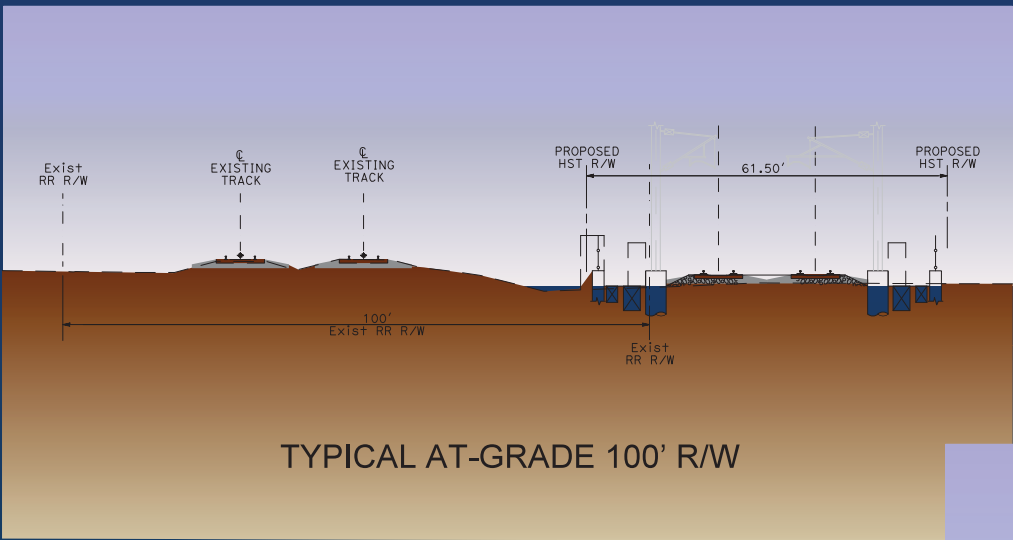
Improving How We Move:

- Reduces demand on our freeway system
- Provides a new transportation choice
- Improves local street safety and traffic flow by separating many at-grade railroad street crossings

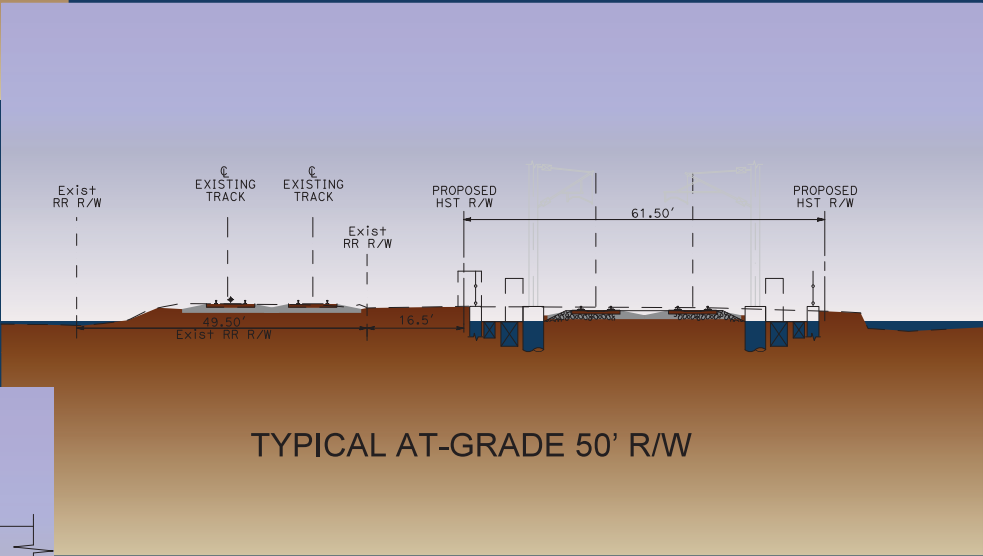


**CITY OF ANAHEIM
DETAILS**

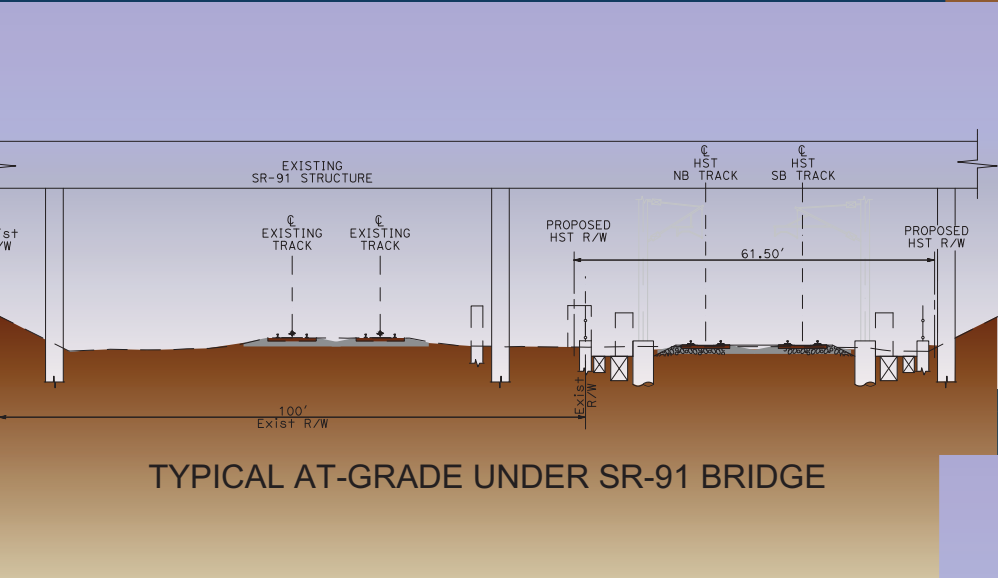
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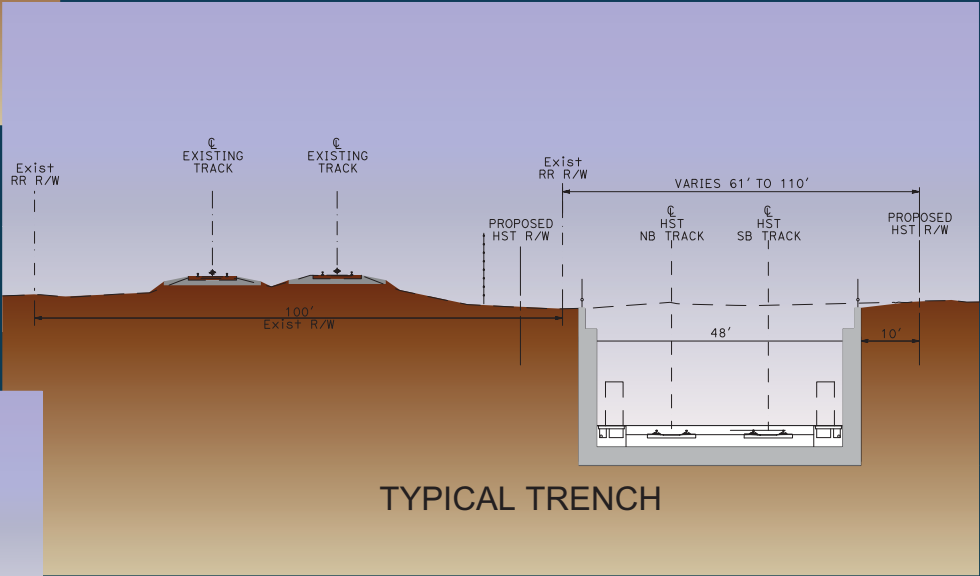
TYPICAL AT-GRADE 100' R/W



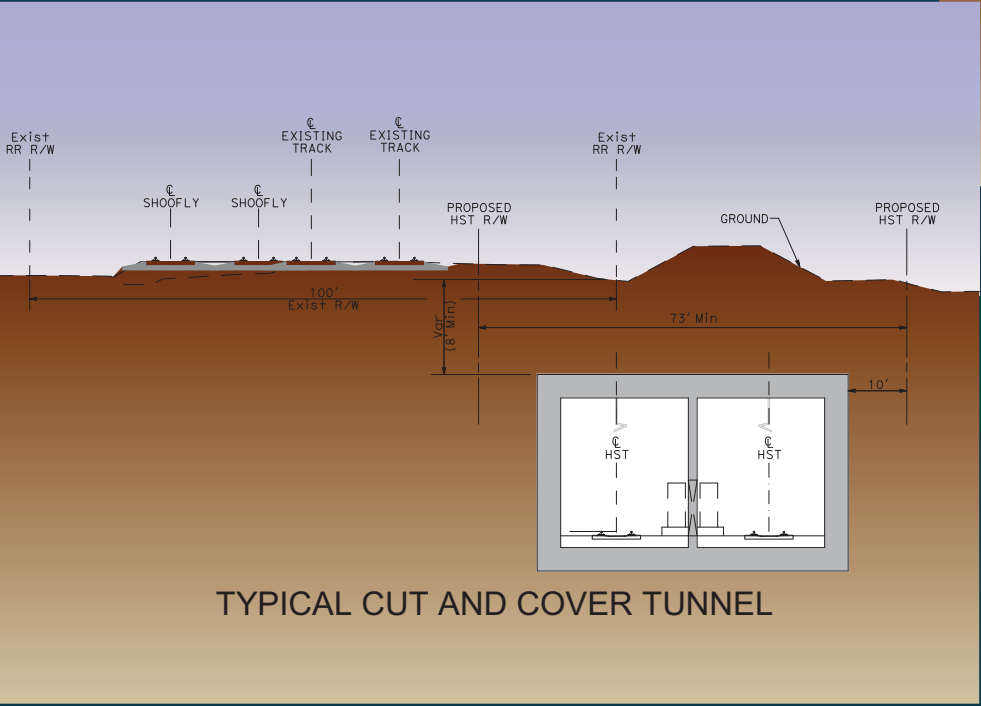
TYPICAL AT-GRADE 50' R/W



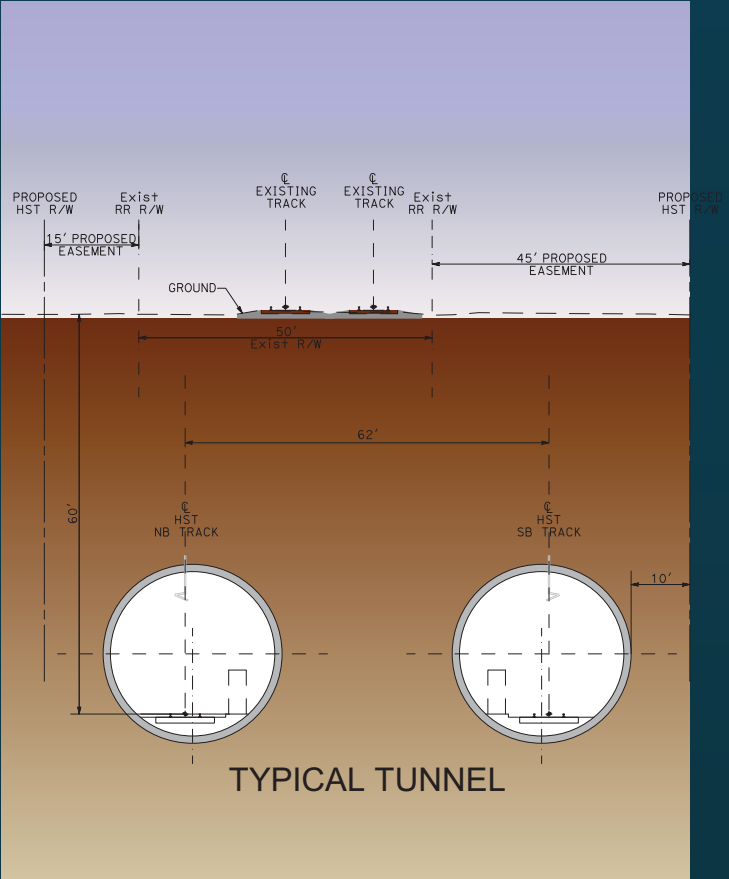
TYPICAL AT-GRADE UNDER SR-91 BRIDGE



TYPICAL TRENCH



TYPICAL CUT AND COVER TUNNEL

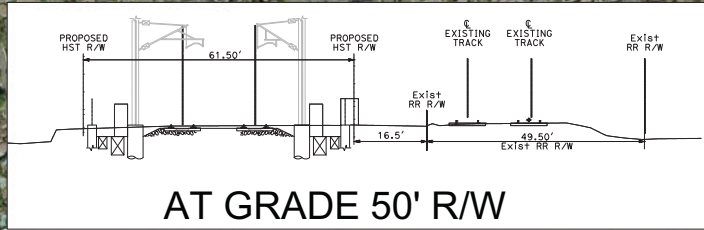
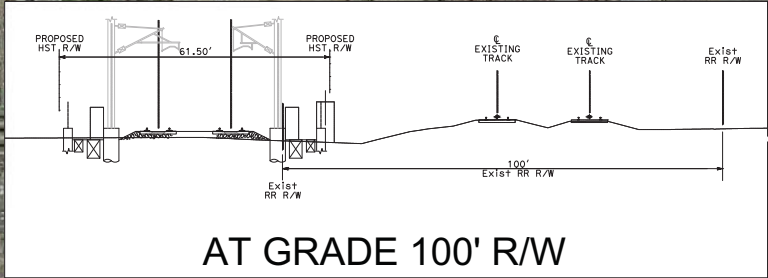
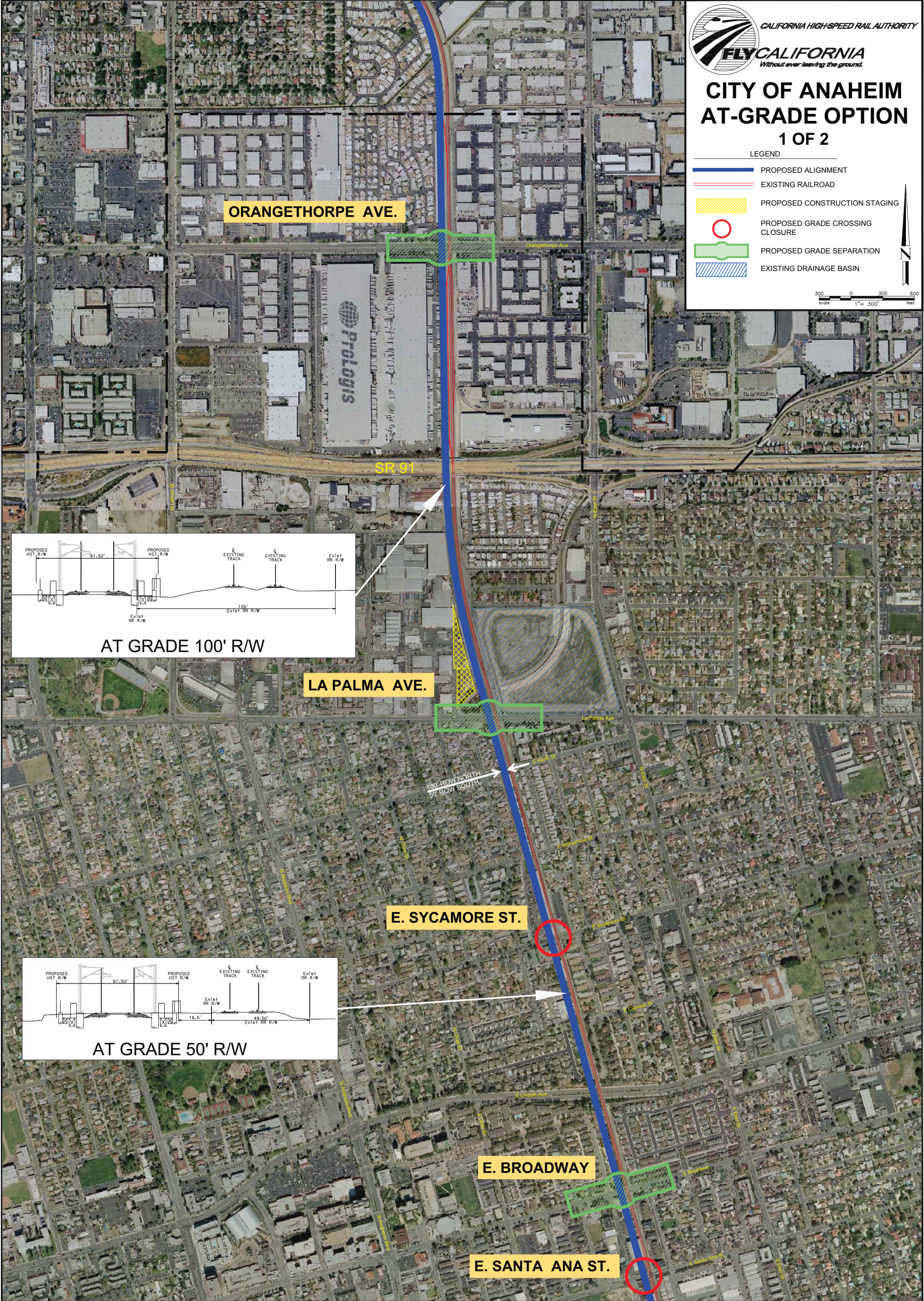
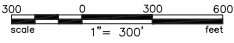


TYPICAL TUNNEL

CITY OF ANAHEIM
AT-GRADE OPTION
1 OF 2

LEGEND

- PROPOSED ALIGNMENT
- EXISTING RAILROAD
- PROPOSED CONSTRUCTION STAGING
- PROPOSED GRADE CROSSING CLOSURE
- PROPOSED GRADE SEPARATION
- EXISTING DRAINAGE BASIN





Grade Separations

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Los Angeles to Anaheim Section Alternatives Analysis Phase



Before
Typical Underpass
After



- Grade separations are underpasses and overpasses where roadways cross railroad tracks
- Grade separations reduce congestion and noise and improve safety
- California High-Speed Rail tracks will be grade-separated from adjacent roadways

Possible Grade Separations in Anaheim:

- Orangethorpe Avenue
- La Palma Avenue (at-grade option only)
- Broadway (at-grade option only)
- South Street (at-grade option only)
- Vermont Avenue (at-grade option only)
- Ball Road
- Cerritos Avenue
- State College



CITY OF ANAHEIM

TUNNEL OPTION

1 OF 2

LEGEND

PROPOSED AT-GRADE

EXISTING RAILROAD

PROPOSED TRENCH

PROPOSED CONSTRUCTION STAGING

EXISTING DRAINAGE BASIN

PROPOSED GRADE SEPARATION

PROPOSED TUNNEL

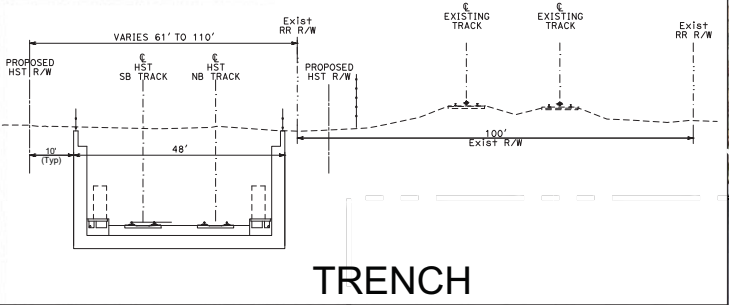
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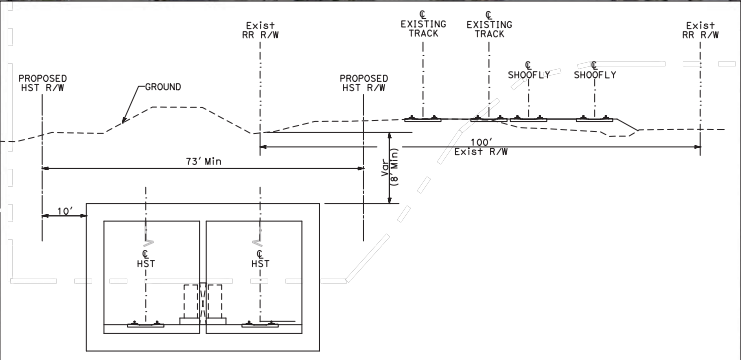
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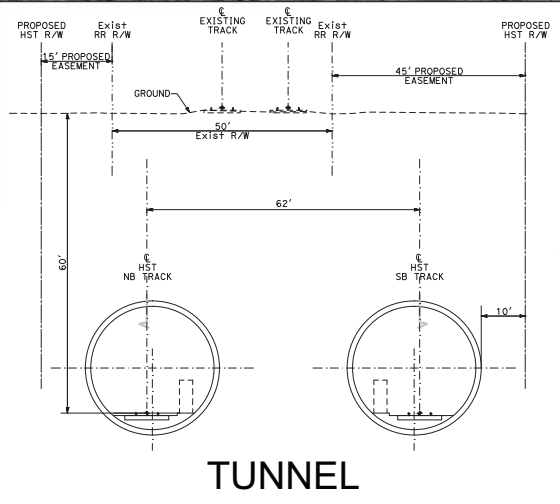


ORANGETHORPE AVE.

SR 91



RELOCATE EXISTING RAILROAD TO ACCOMMODATE CUT & COVER TUNNEL



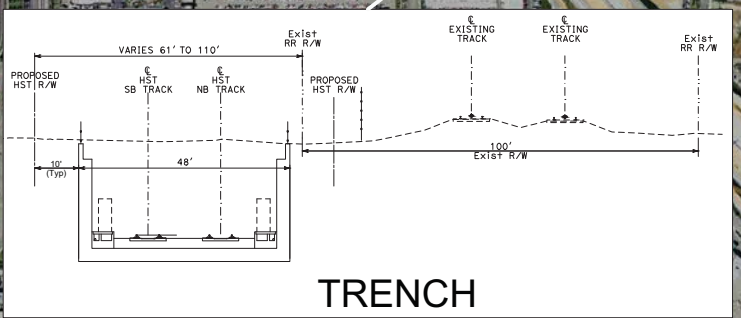
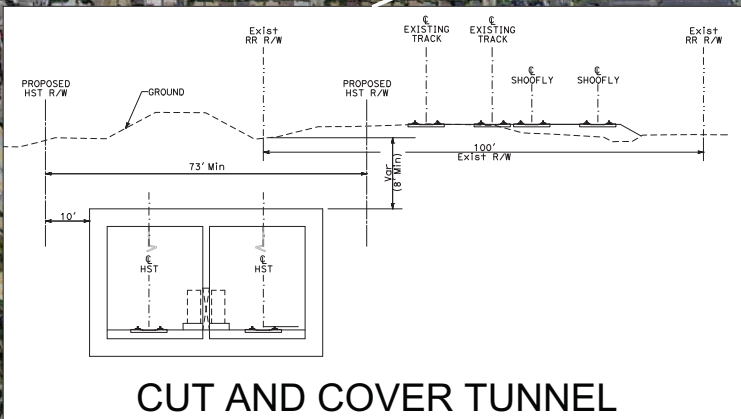
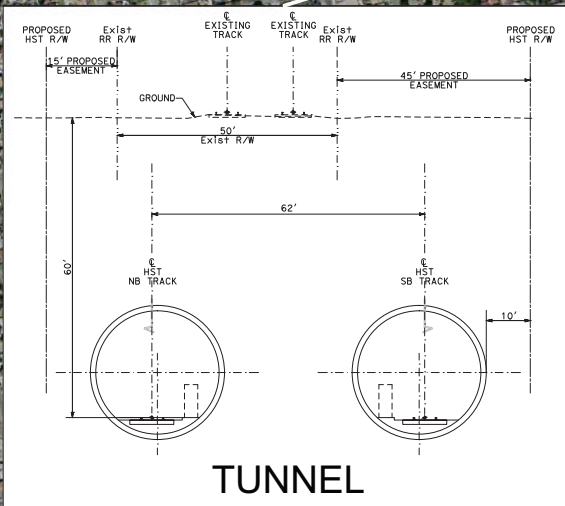
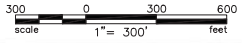
CITY OF ANAHEIM

TUNNEL OPTION

2 OF 2

LEGEND

- PROPOSED AT-GRADE
- EXISTING RAILROAD
- PROPOSED TRENCH
- PROPOSED CONSTRUCTION STAGING
- PROPOSED MAINTENANCE YARD
- PROPOSED GRADE SEPARATION
- PROPOSED TUNNEL



CONNECTION TO
MAINLINE TO BE
DEVELOPED

RELOCATE EXISTING
RAILROAD TO
ACCOMMODATE CUT &
COVER TUNNEL

E. BALL RD.

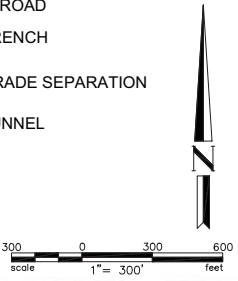
E. CERRITOS AVE.

S. STATE
COLLEGE BLVD.

CITY OF ANAHEIM
ARTIC STATION
STUDY AREA

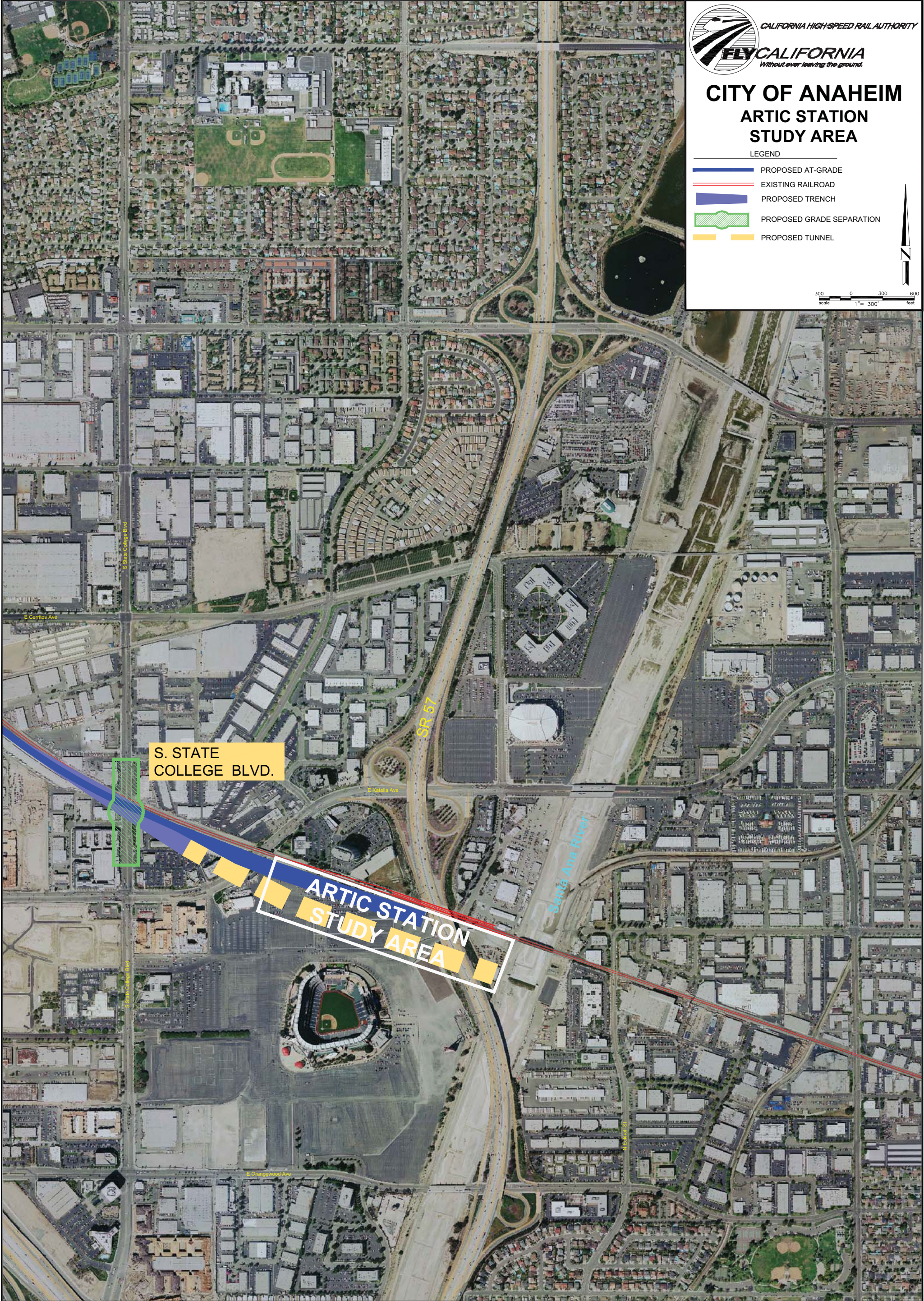
LEGEND

- PROPOSED AT-GRADE
- EXISTING RAILROAD
- PROPOSED TRENCH
- PROPOSED GRADE SEPARATION
- PROPOSED TUNNEL



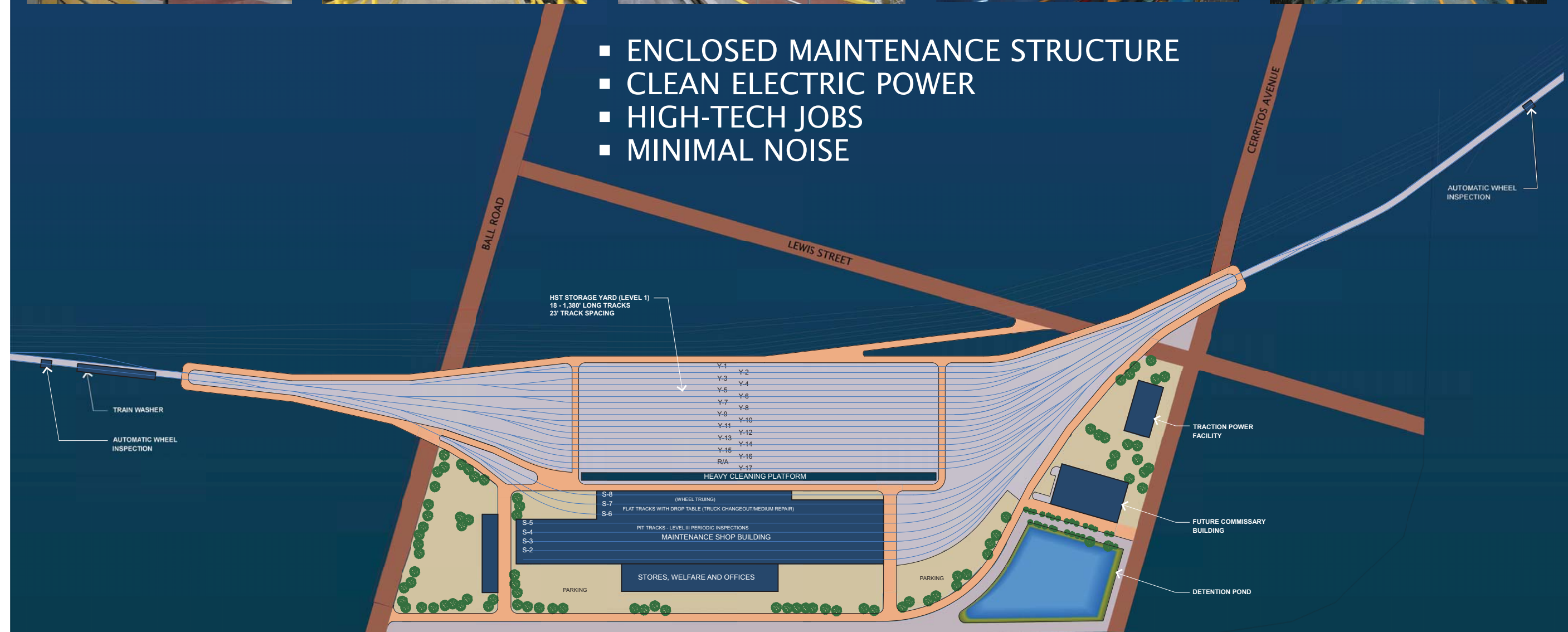
S. STATE
COLLEGE BLVD.

ARTIC STATION
STUDY AREA





- ENCLOSED MAINTENANCE STRUCTURE
- CLEAN ELECTRIC POWER
- HIGH-TECH JOBS
- MINIMAL NOISE



ANAHEIM ROLLING STOCK MAINTENANCE FACILITY SITE PLAN

CALIFORNIA HIGH SPEED TRAIN PROJECT
ANAHEIM
TO
LOS ANGELES



NOT TO SCALE

Environmental Process

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Anaheim to Los Angeles Section Alternatives Analysis Phase

Federal and State Requirements

- National Environmental Policy Act (NEPA)
- California Environmental Quality Act (CEQA)

2005 Statewide Environmental Analysis

- NEPA/CEQA environmental document
- Reviewed system-wide benefits and impacts of high-speed train from San Francisco / Sacramento to San Diego
- Foundation for the Anaheim to Los Angeles Section environmental document



Current Environmental Process

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Anaheim to Los Angeles Section Alternatives Analysis Phase

- Held public scoping meetings
- Defined alternatives based on input from public
 - No Project Alternative
 - Dedicated HST Alternative
 - Station options
 - Alignment design options (aerial, at-grade, below-grade)
- Prepare draft environmental document
 - Analyze potential benefits and impacts of alternatives
 - Identify measures to mitigate potential adverse impacts
- Circulate document and hold public hearing for public review and comment
- Respond to comments and prepare final EIS/EIR document



Environmental Elements Reviewed

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- Aesthetics and Visual Quality
- Agricultural Lands
- Air Quality and Global Climate Change
- Biological Resources and Wetlands
- Cultural Resources (Historic Buildings and Archaeological Sites)
- Electromagnetic Fields and Electromagnetic Interference
- Geology, Soils and Seismicity
- Hazardous Materials and Wastes
- Hydrology and Water Resources
- Local Growth, Station Planning and Land Use
- Noise and Vibration
- Parks, Recreation and Open Space
- Public Utilities and Energy
- Safety and Security
- Socioeconomics, Communities and Environmental Justice
- Transportation and Traffic



Right of Way – your rights

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Our state and federal constitutions recognize private property rights and provide appropriate safeguards when property acquisition by public agencies becomes a possibility.

The state and federal constitutions and various statutes, including the California Eminent Domain Law and the state and federal Uniform Relocation Assistance and Real Property Acquisition Policies Act (as amended), authorize the purchase of private property for public use and outline how to protect the private property rights of every citizen.

Please see our brochure titled Your Property, Your High-Speed Rail Project.

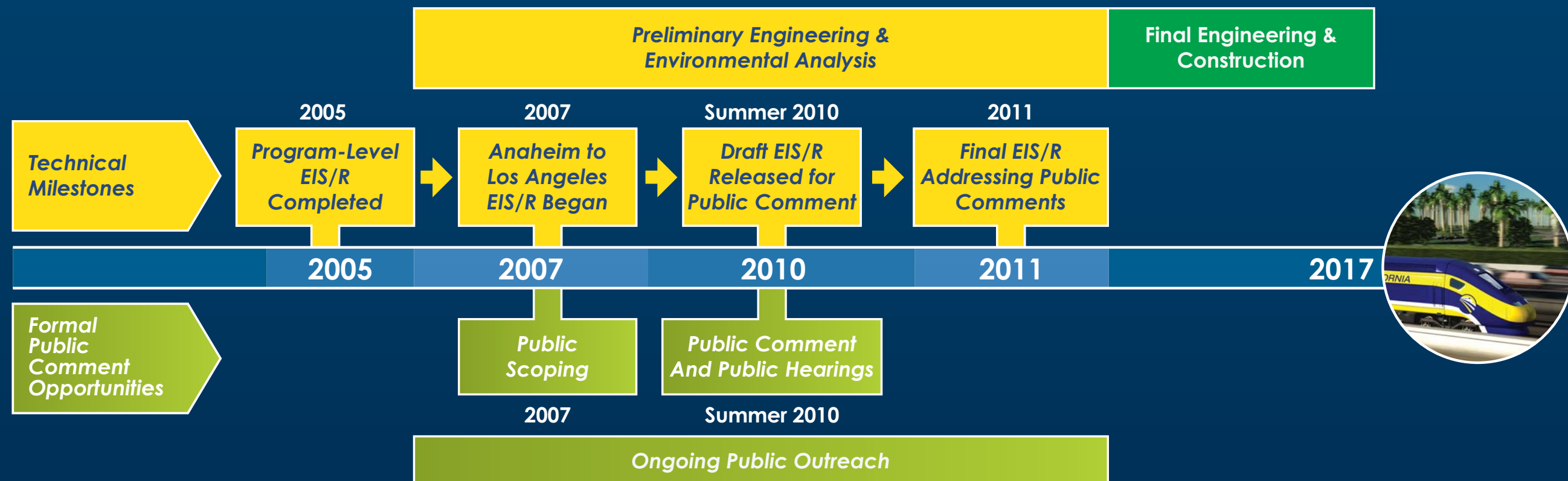


PROJECT TIMELINE

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California High-Speed Train Project

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Tell Us What You Think

